**Product Data Sheet**

**Product Name:** Tolcapone  
**CAS No.:** 134308-13-7  
**Cat. No.:** HY-17406  
**MWt:** 273.24  
**Formula:** C14H11NO5  
**Purity:** >98%  
**Solubility:** DMSO > 15 mg/mL

**Mechanisms:**  
Pathways: Others; Target: COMT

**Biological Activity:**
Tolcapone (Ro 40-7592) is an orally active selective, potent catechol-O-methyltransferase (COMT) inhibitor.  
**IC50 value:**  
**Target:** COMT  
Tolcapone inhibits both central and peripheral COMT. Tolcapone caused a rapid and reversible inhibition of COMT activity in erythrocytes in parallel with a dose-dependent decrease in the formation of 3-OMD. Tolcapone increased the area under the concentration-time curve and elimination half-life of levodopa. Tolcapone crosses the blood-brain barrier, and has been used for L-DOPA adjunct therapy in the treatment of Parkinson’s disease.

**References:**
[4]. M.A. Vieira-Coelho, P. Soares-da-Silva. Ontogenic aspects of liver and kidney catechol-O-methyltransferase...

**Caution:** Not fully tested. For research purposes only  
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